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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/534,857	05/13/2005	Sebastien Canard	33901-175PUS	7415
27799	7590	02/17/2010	EXAMINER	
COHEN, PONTANI, LIEBERMAN & PAVANE LLP 551 FIFTH AVENUE SUITE 1210 NEW YORK, NY 10176			VAUGHAN, MICHAEL R	
			ART UNIT	PAPER NUMBER
			2431	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/534,857	CANARD ET AL.	
	Examiner	Art Unit	
	MICHAEL R. VAUGHAN	2431	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 17 December 2009.
 2a) This action is **FINAL**. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1,2,4-6 and 9-21 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) 1,2,4-6,9-14,20 and 21 is/are allowed.
 6) Claim(s) 15-19 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____ .
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____ .	5) <input type="checkbox"/> Notice of Informal Patent Application
	6) <input type="checkbox"/> Other: _____ .

DETAILED ACTION

The instant application having Application No. 10/534,857 is presented for examination by the examiner. Claims 1, 2, 4-6, and 9-21 are pending. Claims 15 and 17 are amended. Claims 1, 2, 4-6, 9-14, 20, and 21 were allowed.

Response to Amendment

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 15-19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As per claim 15, a single anonymous signature is produced. It is unclear if other signatures are created or not because the claim later refers to "the signatures". Also "a client" is defined for the second time in the newly added limitation. Appropriate correction is required. Claims 16-19 are similarly rejected.

Response to Arguments

Applicant's arguments with respect to claim 15 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 15 -18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Teper et al. (US 5,815,665) hereinafter Teper in view of Aiello et al. (US 6,397,329 B1), hereinafter Aiello and in view of Sako (USP Application Publication 2001/0011351).

Teper teaches a system adapted to open and maintain an authentication session guaranteeing non-repudiation, wherein an anonymous signature unique to the session (col. 11, lines 27-30) and comprising a series of tokens is used to open and maintain each session (col. 9, line 60-col. 10, line 2), the system comprising:

means for implementing three stages comprising:

a first stage in which a client calculates the series of tokens (col. 9, line 67 - col. 10, line 1);

a second stage in which the client makes a strong undertaking to the server as to the series of tokens (col. 9, lines 60-62);

a third stage of maintaining the session with the aid of the series of tokens (col. 11, lines 27-30); and

opening the authentication session with a server (col. 11, lines 30-33).

Teper fails to teach that the series of token comprising an initialization token of the series of tokens and another token responsible for maintaining the authentication session. Aiello teaches that having to keep requesting new tokens can be excessive overhead (col. 5, lines 55-60). Aiello teaches that once a token has been generated, a new token can be efficiently generated by simply hashing the old token a number of times (col. 6, lines 20-30 and col. 7, lines 25-35). This would cut down on the number of communications in Teper's system if the user would not have to keep contacting the Broker server for new tokens needed for authentication. The claim would have been obvious because combining known methods which produce predictable results is within the capabilities of one of ordinary skill in art. The combination of Aiello and Teper would create a more efficient communication. Hash functions are very efficient calculations.

Teper fails to teach creating an anonymous signature of the initialization token using the private key associated with a public key. Sako teaches creating an anonymous signature of the initialization token using the private key associated with a public key [0025, 0026; signed with the group's private key]. Sako teaches session dependent information (tokens) can be anonymously signed with secret keys. The use of RSA cryptography is well known in the art. Using Sako's method of anonymous

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signature could have been easily substituted into Teper's system. Teper even suggests public key and private key algorithms could be used (col. 10, lines 14-19). The claim is obvious because one of ordinary skill in the art can substitute known methods which produce predictable results.

As per claim 16, Teper teaches wherein the first stage calculates the series of token based on two cryptographic primitives, wherein the two cryptographic primitives are a hashing function (col. 10, lines 1-3) and a random number (col. 9, line 59).

As per claim 17, it is noted that Teper and Aiello do not explicitly teach the limitation of "using a group signature by associating a plurality of identifiers and respective private keys with a single group public key."

On the other hand, Sako teaches the abovementioned limitation (page 1, paragraph 0015) as the verification subsystem confirms that the data submitted has a signature verifiable by a group public key affixed and when the confirmation is obtained, this can be regarded as the data sent by a participant subsystem belonging to an eligible group.

It would have been obvious to one of the ordinary skill in the art at the time of the invention to incorporate teachings of Sako into the system of Teper and Aiello because use of the group signature makes it impossible to identify the particular participant in the group, which makes it possible to maintain anonymity.

With respect to claim 18, it is noted that Teper does not explicitly teach the limitation of “using a blind signature.”

On the other hand, Sako teaches the abovementioned limitation (page 1, paragraph 0005) as a participant subsystem authorized to vote proves before a manager subsystem that the presenter is authorized to vote and then has the manager subsystem sign the voting contents by section of blind signature.

It would have been obvious to one of the ordinary skill in the art at the time of the invention to incorporate teachings of Sako into the system of Teper because since blind signature is used, even the manager subsystem cannot know to which participant subsystem the voting statement with the signature has been issued, which makes it possible to maintain anonymity.

Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Teper, Aiello, and Sako as applied to claim 15 in further view of Beaver et al. (US 7,234,059 B1), hereinafter Beaver.

It is noted that Teper, Aiello, and Sako do not explicitly teach the limitation of “the powers to revoke anonymity is divided between two or more authorities.”

On the other hand, Beaver teaches the abovementioned limitation (column 2, lines 60-64) as in systems providing revocable anonymity, anonymity is in place unless a specified event (e.g., court order) demands it be revoked and the identity of the offender revealed. It would have been obvious to one of the ordinary skill in the art at

the time of the invention to incorporate the teachings of Beaver into the system of Teper, Aiello, and Sako to prevent undesirable situations in which troublemakers cannot rely on anonymity to cause harm.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL R. VAUGHAN whose telephone number is

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(571)270-7316. The examiner can normally be reached on Monday - Thursday, 7:30am - 5:00pm, EST. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Korzuch can be reached on 571-272-7589. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/M. R. V./

Examiner, Art Unit 2431
/Syed Zia/
Primary Examiner, Art Unit 2431